AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A system for monitoring blood pressure comprising:

an optical sensor, adapted to be worn on a patient's finger, comprising a light source that generates optical radiation and a photodetector that measures the optical radiation after it irradiates a patient to generate an optical waveform;

a blood pressure monitor, adapted to be worn on the patient's wrist, that connects through a cable to the optical sensor and comprises a microprocessor operating an algorithm that processes the optical waveform to continually determine blood pressure information;

a wireless interface for sending the blood pressure information; and

an external computer system including:

a ~~gateway~~ software system that receives blood pressure information ~~collected with a~~ determined by the blood-pressure monitor and transmitted with [[a]] the wireless interface;

a database that receives the blood pressure information from the ~~gateway~~ software system and stores this information or derivatives thereof; and

a web services ~~software~~ interface that, in response to a request from a secondary software system, retrieves the blood pressure information or derivative thereof from the database and provides the blood pressure information to the secondary software system.

2. (Currently Amended) The system of claim 1, wherein the web services software interface further comprises ~~computer code~~ an algorithm that processes messages comprising an application-independent format.

3. (Original) The system of claim 2, wherein the application-independent format is an XML format.

4. (Original) The system of claim 2, wherein the application-independent format is a SOAP format.

5. (Currently Amended) The telematics system of claim 1, wherein the web services ~~software~~ interface comprises an RPC SOAP servlet.

6. (Original) The telematics system of claim 5, wherein the RPC SOAP servlet comprises computer code that processes a SOAP message sent from the secondary software system.

7. (Original) The telematics system of claim 6, wherein the RPC SOAP servlet further comprises computer code that extracts at least one parameter from the SOAP message.

8. (Currently Amended) The telematics system of claim 7, wherein the web services ~~software~~ interface is configured to pass the parameter to an enterprise Java bean.

9. (Currently Amended) The telematics system of claim 1, wherein the web services ~~software~~ interface further comprises at least one enterprise Java bean.

10. (Currently Amended) The telematics system of claim 9, wherein the enterprise Java bean comprises ~~computer code~~ an algorithm that communicates with the database.

11. (Currently Amended) The telematics system of claim 10, wherein the enterprise Java bean further comprises ~~computer code~~ an algorithm that extracts information from the database.

12. (Canceled).

13. (Currently Amended) The telematics system of claim 8, wherein the enterprise Java bean comprises ~~computer code~~ an algorithm that processes a WSDL file.

14. (Original) The telematics system of claim 8, wherein the enterprise Java bean further comprises computer code that sends at least one parameter to a SOAP servlet.

15. (Currently Amended) The telematics system of claim 1, wherein the web services ~~software~~ interface further comprises ~~computer code~~ an algorithm to send the blood pressure information to the secondary software system.

16. (Currently Amended) The telematics system of claim 15, wherein the web services ~~software~~ interface further comprises ~~computer code~~ an algorithm to send an XML message comprising blood pressure information to the secondary software system.

17. (Currently Amended) The telematics system of claim 15, wherein the web services ~~software~~ interface further comprises ~~computer code~~ an algorithm to send a SOAP message comprising blood pressure information to the secondary software system.

18. (Currently Amended) A telematics system comprising:

an optical sensor, adapted to be worn on a patient's finger, comprising a light source that generates optical radiation and a photodetector that measures the optical radiation after it irradiates a patient to generate an optical waveform;

a blood pressure monitor, adapted to be worn on the patient's wrist, that connects through a cable to the optical sensor and comprises a microprocessor operating an algorithm that processes the optical waveform to continually determine blood pressure information;

a short-range wireless transmitter transmits blood pressure information;

an external computer system comprising:

a long-range wireless interface that receives the blood pressure information from the short-range wireless transmitter;

a ~~gateway~~ software system that receives blood pressure information ~~transmitted~~ from the long-range wireless interface ~~wirelessly from a body-worn device~~;

a database that receives the blood pressure information from the ~~gateway~~ software system and stores this information or derivatives thereof; and

a web services ~~software~~ interface that, in response to a request from a secondary software system, retrieves the blood pressure information or derivative thereof from the database and provides the blood pressure information to the secondary software system.